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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
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10/629,634

07/30/2003

Hiroshi Iwai

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EXAMINER

PHAM, TUAN

ART UNIT

PAPER NUMBER

2618

MAIL DATE

DELIVERY MODE

07/19/2007

PAPER

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary

Application No.

10/629,634

Applicant(s)

IWAI ET AL.

Examiner

TUAN A. PHAM

Art Unit

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-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 07 May 2007.
- 2a) ☒ This action is **FINAL**. 2b) ☐ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 21 and 23-40 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) ☒ Claim(s) 31-37 is/are allowed.
- 6) ☒ Claim(s) 21, 23-30, and 38-40 is/are rejected.
- 7) ☐ Claim(s) _____ is/are objected to.
- 8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☐ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☐ All b) ☐ Some * c) ☐ None of:
- ☐ Certified copies of the priority documents have been received.
 - ☐ Certified copies of the priority documents have been received in Application No. _____.
 - ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- | | |
|--|---|
| 1) <input type="checkbox"/> Notice of References Cited (PTO-892) | 4) <input type="checkbox"/> Interview Summary (PTO-413) |
| 2) <input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) | Paper No(s)/Mail Date. _____ |
| 3) <input type="checkbox"/> Information Disclosure Statement(s) (PTO/SB/08) | 5) <input type="checkbox"/> Notice of Informal Patent Application |
| Paper No(s)/Mail Date _____ | 6) <input type="checkbox"/> Other: _____ |

DETAILED ACTION

Response to Arguments

1. Applicant's arguments with respect to claims 21, 23-30, and 38-40 have been considered but are moot in view of the new ground(s) of rejection.

In response to applicant's remark on pages 7-8, Applicant argues Silzer does not teaches "the projection portion configured to project from the housing at an obtuse angle thereto" as recited in claim 21.

In response to applicant's arguments as stated above, the Examiner respectfully disagrees with the Applicant's argument. Silzer teaches a PDA with a folding handle. The folding handle of the PDA will create an obtuse angle when the handle is folded up or down (see figure 6D).

Claim Rejections - 35 USC § 103

2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was

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not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

3. Claims 21, 23-30, and 38-40 are rejected under 35 U.S.C. 103(a) as being unpatentable over Silzer, Jr. (Pub. No.: US 2004/0001022) in view of Dosch (Patent No.: US 6,587,698).

Regarding claim 21, Silzer teaches a portable radio communication apparatus comprising:

a housing containing a radio communication circuit (see figure 1A, PDA 10, the housing of PDA 10 which enclosed the circuitry, [0026]),

a projection portion (read on handle) having a first end portion connected to said housing (see figure 6A, handle 50), and a second end portion connected to said housing (see figure 6A, handle 50), and a central portion located between the first and second end portions (see figure 6A, handle 50), the projection portion the projection portion configured to project from the housing at an obtuse angle thereto (see figure 6D, the folding handle of the PDA will create an obtuse angle when the handle is folded up or down).

It should be noticed that Silzer fails to teach an antenna element connected to the radio communication circuit through a feeding point which is arranged in said housing, wherein one part of said antenna element is mounted in at least one of an inner part and a surface of said projection portion. However, Dosch teaches an antenna element (see figure 3, antenna 16) connected to the radio communication circuit (see

TX/RX module 4) through a feeding point (the feeding point is the point connected between the module 4 and antenna 16b) which is arranged in said housing, wherein one part of said antenna element is mounted in at least one of an inner part and a surface of said projection portion (see projection part 8, antenna 16b, col.2, ln.11-20).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Dosch into view of Silzer in order to give the user a easy to carry out as suggested by Dosch at col.1, ln.20-25.

Regarding claim 23, Silzer further teaches the central portion of said projection portion extends in parallel to a width direction of said portable radio communication apparatus, and the first and second end portions are bent from opposite ends of the central portion, respectively (see figure 6A, handle 50).

Regarding claim 24, Silzer further teaches said projection portion is shaped as an arch (see figure 6A, handle 50).

Regarding claim 25, Dosch further teaches a thickness of each of said first and second end portions of said projection portion is larger than a thickness of the central portion of said projection portion (see figure 3, the first and second end is larger than the central portion).

Regarding claim 26, Dosch further teaches a width of each of the first and second end portions of said projection portion is larger than a width of the central portion of said projection portion (see figure 3).

Regarding claim 27, Silzer further teaches said projection portion is detachably connected to said housing (see 0030]).

Regarding claim 38, Silzer further teaches said projection portion is a boom portion (see figure 6A, handle 50).

Regarding claim 39, Silzer further teaches said projection portion is made of a member that is formed separately from said housing (see figure 4B, the handle can be removable).

Regarding claim 40, Silzer further teaches said housing is supported on a flat surface by the central part of the projection portion and an end portion of said housing, a surface of said housing opposes the flat surface and is separated from the flat surface by said projection portion, thereby separating the feeding point of said antenna element from the flat surface (it is clearly show in figure 6D, the PDA with folding handle lie on the flat surface that will support by the handle and an end of the housing and the feeding point of the antenna 52 will space apart from the flat surface).

4. Claims 28-30 are rejected under 35 U.S.C. 103(a) as being unpatentable over Silzer, Jr. (Pub. No.: US 2004/0001022) in view of Dosch (Patent No.: US 6,587,698) as applied to claim 21 above, and further in view of Yagi (Pub. No.: US 2003/0184494).

Regarding claim 28, Silzer and Dosch, in combination, fails to teaches dielectric. However, Yayi teaches such features (see [0024]).

Therefore, it would have been obvious to one of ordinary skill in the art at the time the invention was made to incorporate the teaching of Yagi into view of Silzer and

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Dosch in order to prevent bias from adversely affecting the antenna's characteristics as suggested by Yagi at [0024].

Regarding claim 29, Yagi further teaches elastic resin material (see [0024]).

Regarding claim 30, Yagi further teaches conductor material (see [0024]).

Allowable Subject Matter

5. Claims 31-37 are allowed.

Regarding claim 31, the applied references fails to disclose or render obvious a reinforcement member between said projection portion and said housing, wherein at least one part of an antenna element is provided in said reinforcement member, in combination with other limitations as specified in the claim 31.

Regarding claim 32, the applied references fails to disclose or render obvious a parasitic element, wherein at least one part of the parasitic element is provided on one of an interior and an exterior part of the projection portion, in combination with other limitations as specified in the claim 32.

Conclusion

6. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Tuan A. Pham whose telephone number is (571) 272-8097. The examiner can normally be reached on Monday through Friday, 8:30 AM-5:30 PM.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew Anderson can be reached on (571) 272-4177. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should

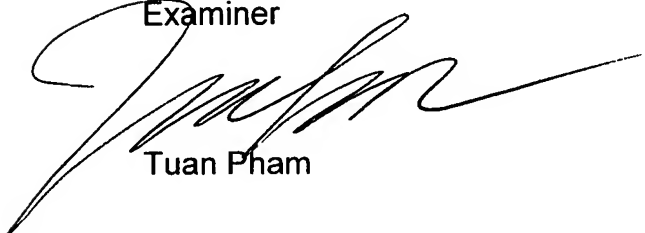
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you have question on access to the Private PAIR system, contact the Electronic
Business Center (EBC) at 866-217-9197 (toll-free).

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July 10, 2007

Examiner

A handwritten signature in black ink, appearing to read 'Tuan Pham', written over the printed name.

Tuan Pham

Supervisory Patent Examiner

Technology Center 2600

A handwritten signature in black ink, appearing to read 'Matthew Anderson', written over the printed name.

Matthew Anderson